

STEPPING MOTOR AND DRIVING METHOD THEREOF

Abstract of the Disclosure

A magnet type stepping motor which has (1) a stator with three-phase stator windings, and  $6m$  pieces of stator main pole arranged side by side, where  $m$  is an integer and  $\geq 1$ , the stator windings of one phase are wound around every two stator main poles among the  $6m$  pieces of the stator main pole, wherein when the stator windings of one phase are excited with a direct current,  $m$  pieces of N pole and  $M$  pieces of S pole are formed alternately on the  $6m$  pieces of stator main pole, and (2) a rotor of a cylindrical permanent magnet magnetized in the circumferential direction to form  $Z/2$  pieces of N pole and  $Z/2$  pieces of S pole alternately, where  $Z$  is the number of rotor poles.

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